

**ART 34 AMDT**

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**CLAIMS:**

1. A link generation process executed by a computer system, including:  
processing data files of a network site to identify valid parameters for generating  
5 dynamically generated content of said network site; and  
generating encoded links for accessing said dynamically generated content, said  
encoded links including said parameters and being in a form suitable for an indexing  
agent to allow indexing of said dynamically generated content.
- 10 2. A process as claimed in claim 1, wherein said generating includes generating a table of  
contents for content of said network site, said table of contents including said encoded  
links.
- 15 3. A process as claimed in claim 2, wherein said table of contents includes links to static  
content of said network site.
4. A process as claimed in claim 2, wherein said table of contents includes one or more  
pages, at least one of said pages including one or more links to content of said network  
20 site.
5. A process as claimed in claim 2, wherein said table of contents includes a plurality of  
pages, each of said pages including one or more links to respective others of said  
pages, at least one of said pages including one or more links to content of said network  
25 site.
6. A process as claimed in claim 5, wherein links in said table of contents pages are  
arranged as a hierarchy corresponding to content of said network site.
- 30 7. A process as claimed in claim 2, including generating a link to a table of contents page  
for a script for dynamically generating content on the basis of supplied parameters,

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wherein said table of contents page for said script includes a plurality of encoded links corresponding to respective parameters for said script.

- 5 8. A process as claimed in claim 7, wherein the table of contents page for said script includes a plurality of encoded links corresponding to respective combinations of parameters and parameter values for said script.
- 10 9. A process as claimed in claim 7, wherein the table of contents page for said script includes at least one link to a further table of contents page including links corresponding to respective parameters or parameter values for said script and including at least one common parameter or parameter value.
- 15 10. A process as claimed in claim 1, wherein said data files include at least one of web server configuration files, scripts, and database tables.
11. A process as claimed in claim 1, wherein said processing includes processing scripts of said network site to identify valid database query parameters on the basis of structured query language statements of said scripts.
- 20 12. A process as claimed in claim 1, wherein said processing includes processing said data files to identify valid combinations of database query parameters and values for generating said dynamically generated content.
- 25 13. A process as claimed in claim 12, wherein said processing includes processing database tables associated with said network site to identify said valid combinations of database query parameters and values.
- 30 14. A process as claimed in claim 1, wherein said encoded links are encoded as links to static content.

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15. A process as claimed in claim 1, wherein each of said encoded links includes a suffix that indicates a type of dynamically generated content for the link.
16. A process as claimed in claim 1, wherein said encoded links include at least one link  
5 having a prefix identifying the link as a link to a table of contents page, and at least one link having a prefix identifying the link as a link to content of said network site.
17. A process as claimed in claim 1, including:
- 10 receiving a request for content of said network site from a remote agent;  
determining whether said remote agent is an indexing agent;  
sending a table of contents page to said remote agent if said remote agent is an indexing agent; and  
sending the requested content to said remote agent if said remote agent is not an indexing agent.
- 15 18. A process as claimed in claim 1, wherein said encoded links are also URI-encoded.
19. A process as claimed in claim 1, wherein said processing includes processing said data files to identify all servable static content of said network site and all servable  
20 dynamically generated content of said network site; and wherein said generating includes generating links to said servable static content and said servable dynamically generated content to provide a table of contents for all servable content of said network site.
- 25 20. A process as claimed in claim 1, including processing scripts of said network site to determine request data for retrieving said dynamically generated data; wherein said encoded links are generated on the basis of said request data and said parameters.

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21. A process as claimed in claim 20, wherein said step of processing scripts includes processing said scripts to determine access data for accessing a database of said network site to generate said dynamically generated content.
- 5 22. A process as claimed in claim 1, wherein said steps of processing and generating are executed at periodic intervals.
23. A process as claimed in claim 1, wherein said steps of processing and generating are executed in response to receiving a request for content of said network site.
- 10 24. A process as claimed in claim 1, including receiving a request generated in response to selecting one of said encoded links, translating said request, and forwarding the translated request to said network site to access corresponding dynamically generated content of said network site.
- 15 25. A process as claimed in claim 24, wherein said translated request is an HTTP GET request.
- 20 26. A process as claimed in claim 24, wherein said translated request is an HTTP POST request.
27. A process as claimed in claim 1, including sending said encoded links to a remote indexing agent to allow said dynamically generated data to be indexed.
- 25 28. A process as claimed in claim 1, including sending said encoded links to a remote system using one of HTTP PUT, HTTP POST, FTP, and SMTP.
29. A process as claimed in claim 5, wherein all servable data of said network site can be accessed via selection of any one of the links to said pages.

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30. A process as claimed in claim 1, wherein said table of contents is generated in one of HTML, XML, HCL, and sitelist.txt formats.
- 5 31. A link generation process executed by a computer system, including generating at least one encoded link for retrieving dynamic content data of a hierarchical data set in response to selecting said at least one encoded link, said at least one encoded link including one or more parameters for generating said dynamic content data and being in a form suitable for an indexing agent to allow indexing of said dynamic content data.
- 10 32. A link generation process as claimed in claim 31, including generating a list of links to content data of at least one node of said hierarchical data set, said links including said at least one encoded link.
- 15 33. A link generation process as claimed in claim 32, wherein said generating includes generating links to all available data of said hierarchical data set.
34. A link generation process as claimed in claim 32, wherein said links include one or more direct links to content data of said hierarchical data set.
- 20 35. A link generation process as claimed in claim 32, wherein said links include one or more indirect links to content data of said hierarchical data set.
36. A link generation process as claimed in claim 32, wherein said links include at least one of a direct and an indirect link to content data of said node.
- 25 37. A link generation process as claimed in claim 32, wherein said list of links corresponds to a node of said hierarchical data set.
38. A link generation process as claimed in claim 32, wherein said hierarchical data set includes at least one web site.
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39. A link generation process as claimed in claim 31, wherein said at least one encoded link includes at least one encoded POST query.
- 5 40. A link generation process as claimed in claim 31, wherein said at least one encoded link includes at least one encoded GET query.
41. A link generation process, including:
- generating encoded links for dynamic content of a network site, each of said
- 10 encoded links including one or more parameters for use in generating said dynamic content and being in a form suitable for an indexing agent to allow indexing of said dynamic content;
- receiving requests from an indexing agent for content of said site; and
- responding to said requests with said encoded links and said dynamic content
- 15 corresponding thereto for indexing.
42. A process as claimed in claim 41, wherein said links are generated as one or more of hyperlinks, XML elements, and text.
- 20 43. A link generation system having components for executing the steps of any one of claims 1 to 42.
44. A computer readable storage medium having stored thereon program code for executing the steps of any one of claims 1 to 42.
- 25 45. A link generation system, including:
- a content discovery module for processing data files of a network site to identify servable data and parameters for generating dynamically generated content of said servable data; and

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5 a link generator for generating links to said servable data to allow said servable content to be accessed using said links, said links including encoded links for accessing said dynamically generated content, said encoded links including said parameters and being in a form suitable for an indexing agent to allow indexing of said dynamically generated content.

46. A link generation system as claimed in claim 45, wherein said link generator is adapted to process a database of said network site to determine said parameters.

10 47. A link generation system as claimed in claim 45, including a proxy server for receiving a request generated in response to selecting one of said encoded links, translating said request, and forwarding the translated request to said network site to access corresponding dynamically generated data of said network site.

15 48. A link generation system, including:

one or more content discovery modules for processing data files of respective network servers to identify servable data and parameters for generating dynamically generated content of said servable data; and

20 a link generator for generating links to said servable data to allow said servable content to be accessed using said links, said links including encoded links for accessing said dynamically generated content, said encoded links including said parameters and being in a form suitable for an indexing agent to allow indexing of said dynamically generated content.

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